

CLAIMS

1. A mixed powder for powder metallurgy comprising an alloy steel powder having: an iron-based powder containing Mn of 0.5% by mass or less and Mo of 0.2 to 1.5% by mass as prealloyed elements; and Mo of 0.05 to 1.0% by mass adhered to the surfaces of said iron-based powder in the form of a powder by diffusion bonding, and a blended powder which is at least one of a Ni powder of 0.2 to 5% by mass and a Cu powder of 0.2 to 3% by mass.

2. A mixed powder for powder metallurgy comprising an alloy steel powder and a blended powder which is at least one of a Ni powder of 0.2 to 5% by mass and a Cu powder of 0.2 to 3% by mass,

wherein said alloy steel powder has the area on the surfaces thereof, which has a Mo concentration of 2.0% or more by mass, in a range equal to or greater than 1% and equal to or less than 30% of the cross-sectional area thereof,

and wherein the remainder of said alloy steel powder contains Mo with a concentration equal to or greater than 0.2% by mass and less than 2.0% by mass.

3. A mixed powder for powder metallurgy according to Claim 1 or Claim 2, wherein said alloy steel powder includes

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at least one of said Ni powder and said Cu powder adhered to the surfaces thereof using a binder.